Clinical Section

Allergic Diseases of Infancy and Childhood*

Ву

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Allergy, which means altered reactivity, is a term introduced by Von Pirquet and Schick¹ at the time they were studying serum sickness, a condition which exists in many individuals after receiving therapeutic serums. Doerr² later used the term to apply to all phenomena of hypersusceptibility in animals and in man, and Zinsser³ also was in favor of using the word allergy to designate this interesting field of medicine. We find, however, under the general heading, allergy, the existence of a great deal of confusion when any attempt is made to classify and correlate the various experiments with animals by numerous workers and the clinical observations of many physicians.

The terms anaphylaxis, allergy and hypersensitiveness are used interchangeably in the medical literature. An effort has therefore been made at this time after a careful survey of the reports of some of the leading observers in this field to present a classification or outline with the hope that it will be of some value in the diagnosis and possibly in the prognosis and the treatment of allergic conditions.

- Anaphylaxis or anaphylactic hypersensitiveness (artificially produced allergy).
 - A. In animals—experimental.
 - B. In man—anaphylactic shock in a previously sensitized individual.
 - C. Drug anaphylaxis in man.
- II. Natural or human hypersensitiveness (allergy by natural acquisition).
 - A. Serum allergy or sickness (delayed anaphylactic reaction).
 - B. Drug allergy or idiosyncrasy.
 - C. Contact dermatitis.
 - D. Contact allergic coryza (vasomotor rhinitis).
 - E. Atopy or atopic hypersensitiveness (allergy through heredity).
 - 1. Atopic or allergic dermatitis.
 - (a) Acute eczema (so called "true eczema" of infancy).
 - (b) Chronic eczema (so-called "neuro-dermatitis" of childhood).
 - 2. Allergic coryza (atopic, hyperesthetic or vasomotor rhinitis) due to:
- From the Allergy Clinic and Service of the Department of Pediatrics, University Hospital, Minneapolis, Presented before the Winnipeg Medical Society at Winnipeg on March 18th, 1938.

- (a) Inhalants
 - (1) Animal emanations.
 - (2) Pollens (hay fever or pollinosis).
 - (3) Powders and perfumes.
- (b) Foods and drugs.
- (c) Bacterial products of infection.
- 3. Bronchial asthma due to
 - (a) Inhalants.
 - (b) Foods and drugs.
 - (c) Bacterial products.
- 4. Other allergic conditions:
 - (a) Urticaria (and angioneurotic edema).
 - (b) Gastro intestinal allergy (food allergy).
 - (c) Allergic migraine.
 - (d) Puroura (Henoch's).
 - (e) Vernal conjunctivitis.
 - (f) Some cases of epilepsy.
- 5. Serum and drug shock in the atopic individual.
- III. Hypersensitiveness in infection (allergy acquired through infection).
 - A. Bacterial allergy or hyperergia.
 - 1. Tuberculosis.
 - 2. Allergy has been considered in:
 - (a) Rheumatic fever.
 - (b) Scarlet fever.
 - (c) Nephritis.
 - (d) Lobar pneumonia.
 - B. Fungous and parasitic infections may produce allergic reactions.

The name atopy, which means "a strange disease" was coined by Coca, a leading American investigator in the field of allergy. He included all those clinical forms of hypersensitiveness which occur so far as is known only in human beings and which are subject almost entirely to inheritance.

The substance to which the atopic individual responds in an abnormal way are called "atopens", and they may be proteins or non-proteins. These individuals react with specific bodies which may be found in the blood of nearly all cases. Whether these bodies which have been called atopic reagins are true antibodies developed immunologically under antigen stimulation or physiological products like the natural hemoagglutinins and hymolysins is not known.

The purpose of this communication is to summarize the experience which we have had during the past six years in taking care of allergic children. There were 373 cases which were distributed as follows: eczema, 115 (30.8 per cent.); allergic coryza, 46 (12.4 per cent.); hay fever, 51 (13.6 per cent.); bronchial asthma, 141 (37.8 per cent.); urticaria, 17 (4.6 per cent.); and gastro-intestinal allergy, 3 (0.8 per cent.). All of these allergic disorders may be grouped under that subheading of natural or human hypersensitiveness entitled atopy or atopic hypersensitiveness.

The atopic children were handled in the allergy clinic in a rather simple manner. Nothing elaborate was attempted. An effort was made to follow some definite program in searching for the cause of the allergic disorder. First of all, a very complete history was obtained. It was observed that in many instances a good history was really the key to success in the treatment. Special emphasis was placed on the time of onset, the outstanding symptoms, the course of the disease from month to month, or year to year, the previous allergic disorders, the associated or concomitant allergie disorders, and the family history. A search was made for allergic disorders among immediate members of the family and blood relations. Several history outlines were tried in obtaining good records but none was found to be quite as satisfactory as the one that follows:5, 6

I. PRESENT ILLNESS. Sex Age Date

- A. Duration. Date of onset.
- B. First attack: Gradual or sudden onset and early symptoms.
- C. Suspected cause of onset (illness or operation)?
- D. What brought relief?
- E. Frequency of attacks.
- F. Duration of attacks.
- G. When worse (time of year)?
- H. Seasonal only? Dates.
- I. Chief symptoms at present time:
- J. Free from symptoms at any time? Dates.
- K. Where living at that time?
- L. Any symptoms between attacks?
- M. Treatment received up to the present time:
- N. Success of treatment.

II. PAST HISTORY.

- A. Infancy.
 - 1. Infantile eczema? Dates.
 - 2. Breast-fed how long? Bottle-fed how long?
 - 3. Food disagreements.
 Any foods cause any symptoms?
- B. Childhood (circle positive findings).
 - 1. Any chronic or recurrent rhinitis, bronchitis, croup, cyclic vomiting or frequent gastro-intestinal disturbances?
 - 2. Any eczema, allergic coryza, hay fever, asthma, urticaria, gastro-intestinal allergy, purpura?

 Dates.
 - 3. Were these continuous? Seasonal? When worse?
 - 4. Any suspected cause?
 - 5. Treatment received?
 - 6. Success of treatment.
- C. History by symptoms (record other symptoms besides those listed).
 - Head headache (unilateral or bilateral).
 - 2. Scalp-itching and seborrhea.
 - 3. Eyes—itching and burning.
 - 4. Nose-blockage, discharge, sneezing.
 - 5. Ears-itching.

- 6. Mouth and throat-irritation, dryness.
- 7. Chest—dyspnea, chronic cough, chronic expectoration (amount and type).
- 8. Heart-tachycardia.
- Gastro-intestinal constipation, diarrhea, abdominal distress, nausea, vomiting.
- 10. Genito-urinary—bladder distress.
- 11. Bones and joints-pain.
- 12. Nervous system—irritability, depression.
- 13. Skin.
 - (a) Location of lesions.
 - (b) Characteristic lesion (erythema papules, vesicles, crusts, swelling thickening, plagues).
 - (c) Pruritis or itching. When worse? Related to meals? Cyclic? Related to dust?
- 14. Weight—loss or gain? How long a period?
- 15. Operations (especially of the nose and throat).
 Type of operation? Results?

D. Diet and environment.

- Foods (cereals, egg, milk, fish, meats, vegetables, fruit, nuts, spices and condiments, chocolate and cocoa, honey, beverages).
 - (a) Any dislikes or disagreements?
 - (b) Worse after meals?
 - (c) Any which cause asthma, increased itching, urticaria, weeping, etc.?
- 2. Animals—Note effects of contact with any of the following:

Cat Chicken Cow
Dog Parrot Sheep
Canary Horse Other
Animals

3. Bedding—Note the type and age of the following:

Pillows Blankets Mattresses Comforters

4. Furnishings—Note the type and age of the following:

Furniture (wood or metal) Upholstery (leather or cloth) Stuffing in furniture Drapes and Rugs (mothproofed?)

5. Clothing—Note the type and age of the articles used:

Wool Silk Furs Cotton Rayon

6. Physical agents:

Heat Sun Water Cold Wind

- 7. Miscellaneous:
 - (a) Dusts (especially house dust), fumes, etc.
 - (b) Cosmetics—Note type and effect of use.
 - (c) Insecticides—Note type used and frequency of use.
 - (d) Drug idiosyncrasy—Note effect of drugs used locally or by mouth.
- 8. Residence (city or country?)
 Any recent change?
- 9. Home (house old or new?)
 Damp or musty?

III. FAMILY HISTORY.

- A. Note the presence of: Eczema, allergic coryza or rhinitis, hay fever, asthma, urticaria, gastro-intestinal or food allergy, migraine in:
 - 1. Mother, Father, Sisters, Brothers.
 - 2. Grandparents, Aunts, Uncles.
- B. Does the color of the eyes correspond to that of the mother or father?

Each child received a complete physical examination with special emphasis being placed on a careful observation of the nose and throat. A note was made as to whether the tonsils and adenoids had already been removed. A record was also kept of the number of sinus or antrum punctures the patient had received. Roentgenograms of the paranasal sinuses and the lungs were obtained in all cases with allergic disorders of the respiratory tract. Blood studies were made, and the differential counts were closely followed. As a whole very few outstanding physical defects were found among the allergic children.

Cutaneous tests were next applied. The glycerinized fluid extracts of the various atopens or allergens were used. The material is furnished in capillary tubes, there being enough of the fluid extract in each tube for one test. In this way there is no danger of contamination or spilling which occasionally occurs with the dry extracts. There is also no need for the hypodermic needles, syringes and cleansing solutions which are so essential in performing the intradermal tests.

The tests were applied by the pressure-puncture method. This was found to be the best method for infants and small children, especially when they would not remain quiet. The skin was cleansed with alcohol or ether, and after evaporation, the extract was expelled from the glass capillary tubes upon the cleansed skin at intervals of about four centimeters. Holding a sterile sewing needle nearly parallel with the skin, four oblique pricks or shallow punctures were made through the epidermis by pressing the point of the needle through each drop of extract. A new needle was used for each test. The punctures were confined to an area not more than three millimeters in diameter.

Sufficient fluid extract to produce a positive reaction in susceptible children was carried into the skin by these multiple punctures, and so in a few minutes the excess fluid on the surface of the skin was lightly wiped off. A similar test was carried out with a control glycerine solution and only those reactions in the test sites which were distinctly greater in intensity than that resulting from the control test were considered positive. The positive reactions (urticarial wheal surrounded by a zone of erythema) usually appeared in sensitive patients in 20 to 30 minutes.^{7, 8, 9}

The intracutaneous tests were used in the older children. The following method was employed. The outer aspect of the arm or the anterior aspect of the thigh was used. The skin was cleansed with alcohol and dried. A graduated 1 cc. (tuber-

culin) syringe with a hypodermic needle of 27 gauge and a half inch in length was selected. After loading the syringe and ejecting all air bubbles, the needle was inserted into the corium through the integument. Not more than 0.01 cc. of the sterile extract was injected. Control tests were similarly made with sterile extracting fluid. The tests were observed and read within ten to fifteen minutes.

The cutaneous tests were found to be of great value in hay fever and asthma, and of least value in urticaria and gastro-intestinal allergy. The size of the skin reaction was not always an indication of the importance of the test. A small response (erythema) could indicate sensitivity of clinical value. On the other hand, many markedly positive tests were of little value.

With the increasing use of the skin for the detection of various sensitivities it is important to keep in mind that the reactions elicited in the skin give merely a visible record in part at least of the immunologic past history of the patient and per se do not portray a present illness. A correlation between positive tests and the history and observations in the allergic patient is necessary for an accurate diagnosis. The question of variations in technique as well as irritability of reagents in nervous, emotional and physiologic activity, as well as the choice of the skin area tested, greatly affect the reactivity to the tests. The differences in interpretations frequently leave the management of the patient in a most unsettled state. Whether the skin test is pressure-puncture or intracutaneous, the accuracy of the conclusions must rest in the close correlation of symptoms and course with exposure and withdrawal respectively of the substances incriminated by this method of detection.10

When the results of the cutaneous tests were negative or unsatisfactory, the so-called elimination of trial diets were tried. In the older infant and in the young child, these diets were often very valuable. Numerous diets eliminating various foods were used. It was found that in the majority of the cases one or more of the following foods were responsible for the allergic manifestations: milk, cheese, egg, whole wheat, white potato, chocolate, tomato and orange. If the removal of these foods did not give satisfactory results, then diets eliminating beef, chicken, oatmeal, rye, peas, beans, spinach, apple or grape were tried.

Experience shows that success in connection with the trial diets depends in many instances upon the thoroughness with which they are carried out by the parents. A great deal of time must therefore be taken in explaining each diet in detail, emphasizing especially all positive sources of error. The general health of the children on elimination diets should be closely watched. Be sure the infant or child receives the proper number of calories, a sufficient amount of the minerals such as calcium and phosphorus, and an adequate supply of vitamins. In some instances, milk can gradually be returned to the diet in

the form of evaporated milk or a powdered milk. 11, 12, 13, 14

The diagnostic procedures mentioned above were applied to all the children studied in our allergy clinic. For economy of space and for the sake of clearness, the data obtained from all the histories, physical examinations, cutaneous tests, and elimination diets together with the treatment which was instituted has been condensed into six tables which are practically self-explanatory. An analysis of the information obtained in determining the cause of the allergic disease in each individual case together with the experiences encountered in the treatment leads up to the following facts, many of which are most helpful to the practicing physician called upon to take care of an allergic child.

TABLE 1. ECZEMA OF INFANCY AND CHILDHOOD — 115 cases (30.8 per cent.)

1.	Sex: Male Female	60 55
2.	Age at First Visit:	
	Below 1 year 1 to 5 yrs. incl. 6 to 10 yrs. incl. 11 to 15 yrs. incl.	44 37 18 16
3.	Age at Onset: Below 1 year 1 to 5 yrs. incl. 6 to 10 yrs. incl. 11 to 15 yrs. incl.	84 23 4 4
4.	Previous Allergic Disorders	0
5.	Associated Allergic Disorders: Bronchial asthma Hay fever Urticaria	7 2 1
6.	Family History: Positive Negative or unknown	63 52
7.	Physical Examination: Overweight (10%) Otitis media Mental retardation Impetigo Pneumonia	6 10 2 1
8.	Eosinophile Differential Count: Below 5 per cent. 5 to 10 per cent. Over 10 per cent. No count	65 25 13 12
9.	Cutaneous Tests: Positive Negative or refused	64 51
10.	Treatment Positive skin tests Removal from diet of Egg Egg and wheat Egg, wheat and milk Egg, wheat and chocolate Egg and milk Egg and peas Wheat Wheat and oatmeal Wheat, oatmeal and milk Milk Codfish Tomato and orange Orange and chocolate Chicken and cheese	12 5 1 1 2 1 3 1 2 7 1 1 1

	Contact with ragweed	2
	Removal of silk	1
	Removal of rayon	1
	Referred into hospital	12
	Treatment unsuccessful	9
	Negative or no skin tests	
	Elimination diets used with removal fr	om
	diet of	
	Egg	6
	Egg and wheat	(
	Egg, wheat and milk	3
	Egg and potato	1
	Wheat	2
	Milk	3
	Milk and potato	1
	Potato	1
	Chocolate	1
	Tar alone very effective	15
	Referred into hospital	3
	Treatment unsuccessful	7
0.	In this table and the succeeding one	a the

Note: In this table and the succeeding ones the numerals in each column indicate the number of cases.

TABLE II. ALLERGIC CORYZA (ATOPIC RHINITIS) — 46 cases (12.4 per cent.)

	111111115) — 40 cases (12.4 per cent.)	
1.	Sex: Male Female	38 18
2.	Age at First Visit:	
	Below 1 year	(
	1 to 5 yrs. incl. 6 to 10 yrs. incl.	8 20
	11 to 15 yrs. incl.	18
3.	Age at Onset:	
	Below 1 year	(
	1 to 5 yrs. incl. 6 to 10 yrs. incl.	31 18
1	Previous Allergic Disorders:	16
7.	Infantile eczema	
5.	Associated Allergic Disorders:	C
٠.	Bronchial asthma	- 5
	Chronic eczema	4
	Urticaria	3
0	Hay fever	_ 1
6.	Family History: Positive	40
	Negative or unknown	6
7.	Physical Examination:	
	Large tonsils	7
	Ear infection	. 2
0	Adolescent goiter	1
8.	Tonsils (at first visit) Present	10
	Removed	18 28
9.	Maxillary Sinus Roentgenograms:	
	Positive	25
10	Negative	21
LU.	Eosiniphile Differential Count: Below 5 per cent.	23
	5 to 10 per cent.	11
	Over 10 per cent.	8
1	No count	4
1.	Cutaneous Tests (pressure-puncture or in dermal or both):	tra-
	Positive	16
	Negative	30
12.	Treatment	
	Skin tests of value	
	Symptom free after removal of Mustard	1

Banana, grape and pineapple

Egg and feathers

S IVIa	101, 1909]		1100001	THOU TENT IT	TJ
	Footboxa	5		Moved from Minnegate	0
2	Feathers Cat (dander)	2		Moved from Minnesota Hyposensitization refused	2 6
1	Cat and orris root	1		No treatment	3
1	Orris root	1		The streamont	0
2	Goat	1		TABLE IV. BRONCHIAL ASTHMA	
9	Skin tests of no value			141 cases (37.8 per cent.)	
).	Improvement followed after removal of				
	Egg	4	1.	Sex: Male	105
2	Egg and wheat	3		Female	36
	Egg, wheat and milk Wheat	2	2.	Age at First Visit:	
	Wheat and potato (sinus drainage)	1		Below 1 year	3
	Milk	1		1 to 5 yrs. incl.	30
	Tomato and apple	1		6 to 10 yrs. incl.	62 46
	Apple and feathers	1		11 to 15 yrs. incl.	40
	Feathers and reduction of house dust Feathers and house dust	1	3.	Age at Onset:	
	House dust	1		Below 1 year	24
	Removal of tonsils and adenoids	3		1 to 5 yrs. incl. 6 to 10 yrs. incl.	79 29
	No improvement	11		11 to 15 yrs. incl.	9
					·
	TABLE III. HAY FEVER (POLLINOSIS)		4.	Previous Allergic Disorders:	
	51 cases (13.6 per cent.)			Infantile eczema	56
				Hay fever Urticaria	6 5
1.	Sex: Male	44			0
	Female	7	5.	Associated Allergic Disorders:	
2.	Age at First Visit:	0		Hay fever	18
	Below 1 year 1 to 5 yrs. incl.	0		Chronic eczema Urticaria	12 12
	6 to 10 yrs. incl.	24		Allergic coryza	1
	11 to 15 yrs. incl.	23	0		-
3.	Age at Onset:		0.	Family History:	100
	Below 1 year	1		Positive Negative or unknown	108 33
	1 to 5 yrs. incl.	23			00
	6 to 10 yrs. incl.	21	7.	Physical Examination:	
,	11 to 15 yrs. incl.	6		Large tonsils	28
4.	Previous Allergic Disorders: Infantile eczema	10		Barrel chest Malnutrition	12 7
	Bronchial asthma	5		Nasal polyps	2
	Urticaria	2		Adolescent goiter	.1
5.	Associated Allergic Disorders:		8	Tonsils (at first visit):	
	Bronchial asthma	10	0.	Present	84
	Gastro-intestinal allergy	3		Removed	57
	Chronic eczema	1	0	Maxillany Cinus Poontgonograms	
	Urticaria Allergic coryza	1	5.	Maxillary Sinus Roentgenograms: Positive	86
6	Family History:	1		Negative	55
0.	Positive	39	10		
	Negative or unknown	12	10.	Eosinophile Differential Count:	40
7.	Physical Examination:			Below 5 per cent. 5 to 10 per cent.	48 51
	Large tonsils	5		Over 10 per cent.	29
	Ichthyosis	1		No count	3
8.	Tonsils (at first visit):		11	Cutaneous Tests:	
	Present	25	11.	Positive	108
0	Removed	26		Negative or refused	33
9.	Maxilliary Sinus Roentgenograms:	0.0	19	Treatment:	
	Positive Negative	28 18	12.	Positive tests of value	
	No record	5		Removal of foods	
10.	Eosinophile Differential Count:	0		Egg	2
	Below 5 per cent.	24		Egg and wheat	1
	5 to 10 per cent.	19		Egg, cereals, milk and meat	1
	Over 10 per cent.	4		Wheat	2
4.	No count	. 4		Milk Rye	2 2 1
11.	Cutaneous Tests:			Grape	1
	Positive	47		Peanut	1
	Negative Refused	2 2		Removal of inhalants	
12	Treatment:	2		Horse dander	3
	Hyposensitization—good results			Horse and cow dander	4
	Grasses	1		Horse and feathers	4 1 7
	Russian thistle group	2		House dust Cat dander	7 3
	Wormwood—sage group	4		Feathers	15
	Ragweed group	24		Feathers and dog	2
	Grasses and ragweed	7		Orris root	1
	Hyposensitization in progress the first time	e 2		Fish glue	1

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Removal of foods and inhalants Egg and feathers	2	Elimination diets used with after removal of
Cereals, peas and feathers	1	Egg and wheat Egg, wheat, potato, tom
Hyposensitization	2	and chocolate
Grass groups Ragweed group	11	Egg, milk and spinach
Tree and ragweed	3	Milk
Grass and ragweed	10	Tomato
Removal of foods and hyposensitization	on 5	Tomato and orange
Feathers and hyposensitization	2	Removal of wool Avoidance of heat (hot ba
House dust and hyposensitization	2	Alkaline ash diet and alk
Positive tests of no value		Treatment unsuccessful
Potassium iodide and belladonnae gav most relief	7	Treatment ansaccessial
Removal of tonsils and adenoids with		TABLE VI. GASTRO-INTESTIN
sinus drainage	3	3 cases (0.8 per cent
Moved from Minnesota	1	1. Sex: Male
Tests negative or refused		Female
Removal of		2. Age at First Visit:
Egg	2	Below 1 year
Egg, wheat and feathers Wheat and feathers	1	1 to 5 yrs. incl.
Feathers	3	6 to 10 yrs. incl.
House dust	2	11 to 15 yrs. incl.
Horse and cow dander	1	3. Age at Onset:
Removal of tonsils and adenoids	2	Below 1 year 1 to 5 yrs. incl.
Infection	3	6 to 10 yrs. incl.
Treatment unsuccessful	24	4. Previous Allergic Disorders:
		5. Associated Allergic Disorders:
TABLE V. URTICARIA — 17 cases (4.6 per	cent.)	6. Family History:
1. Sex: Male	6	Positive
Female	, 11	Negative
2. Age at First Visit:		7. Physical Examination:
Below 1 year	2	Large tonsils
1 to 5 yrs. incl.	6	8. Tonsils (at first visit):
6 to 10 yrs. incl.	6	Present
11 to 15 yrs. incl.	0	Removed
3. Age at Onset: Below 1 year	4	9. Maxillary Sinus Roentgenogra
1 to 5 yrs. incl.	7	Positive Negative
6 to 10 yrs. incl.	3	10. Eosinophile Differential Count
11 to 15 yrs. incl.	3	Below 5 per cent.
4. Previous Allergic Disorders:		5 to 10 per cent.
Infantile eczema	1	11. Cutaneous Tests:
5. Associated Allergic Disorders:		Positive
Gastro-intestinal	3	Negative
6. Family History:		12. Treatment
Positive	5	Skin tests of value Symptoms free after the
Negative	10	of cheese
7. Physical Examination:	1	Skin tests of no value and el
Large tonsils Many dental caries	1	diets used
8. Tonsils (at first visit)	-	Improvement followed after
Present	15	from diet of
Removed	2	Milk and wheat Wheat and chocolate
9. Maxillary Sinus Roentgenograms:		Before treatment subjects h
Positive	1	and abdominal pain or colic.
Negative	16	complained of headaches.
10. Eosinophile Differential Count:	1.4	
Below 5 per cent. 5 to 10 per cent.	14	Table I. represents the data se
11. Cutaneous Tests:	9	children with eczema. There is
Positive	4	equal distribution as to sex. The
Negative	9	allergic condition is very early in
Unsatisfactory	4	is usually not preceded by any of
12. Treatment		ease. Very few cases have ass
Skin tests of value		disorders. With the onset of a
Symptoms free after removal of		condition, the eczema may sudd
Tomato, carrot, orange, apple and chocolate	1	Many cases of eczema reveal posi
Banana grape and nineannle	1	pollen tests and these cases later

Skin tests of no value, negative or

unsatisfactory

th relief ag nato, orange ths) ali NAL ALLERGY TO t.)

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ecured from the more or less an ne onset of this n life so that it her allergic dissociated allergic another allergic lenly disappear tive inhalant of develop allergie coryza, hay fever, or asthma. Food atopens (allergens) play an important part as causative

agents in atopic or allergic eczema of infancy and childhood. Cutaneous tests, however, do not assist in some cases in determining this food allergy. Elimination or trial diets must be used. eczematous infants on artificial feeding and with only marked egg white sensitivity by cutaneous testing constitute the most difficult group to treat. The external application of tar still remains a fairly good form of treatment. The single use of the elimination diet, of tar, or of any other treatment does not always give entirely satisfactory y results. Various combinations of therapy are now considered to be most effective. Some infants have skin disorders which resemble very closely atopic eczema but which are probably not due to an allergic disturbance. Many of these cases have a negative family history for allergic disorders. Contact dermatitis is rare.

The allergic disorders with predominant nasal manifestations are considered in Tables II. and III. There is allergic coryza with its characteristic perennial history, and hay fever or pollinosis with its strong seasonal occurrence. The incidence of these disorders appears to be greater in the males than in the females. Many cases of allergic coryza have their onset during the preschool period of childhood. These children are often referred to as having "one cold after another." The highest incidence of nose and throat surgery prior to admission occurs in this group. The results are usually reported as unsatisfactory. The scratch or pressure-puncture skin tests are not very helpful. Intracutaneous testing is strongly indicated in this disorder. In the absence of positive cutaneous tests, the response to trial or elimination diets is most encouraging. Of all the allergic diseases, allergic coryza requires the most thorough elimination of offending foods from the diet, or irritating inhalants from the environment in order to obtain improvement. Food sensitivity producing allergic coryza may be replaced by inhalant sensitivity. Then asthma can appear as an associated allergic disorder.

Hay fever is an allergic disorder which appears earlier in life than the lower age limit set by many physicians. The onset in many of the cases is in the preschool period. Bronchial asthma becomes in children an important associated allergic disorder. Cutaneous testing is very satisfactory. Hyposensitization or desensitization gives encouraging results.

In Table IV. is condensed all the data obtained from a thorough review of the cases who were admitted to the clinic with a diagnosis of bronchial asthma. Hereditary tendency is very strong in asthma. Here is an allergic disease in which there is a high incidence of bilateral hereditary influence with a corresponding early onset of symptoms in the off-springs. One-fifth of the cases start in infancy and about one-half have their origin in the preschool period of childhood. Eczema is a common forerunner of asthma. The so-called "false positive food tests" which are frequently found in some allergic diseases, especially bronchial asthma, are closely related to a history of

infantile eczema. Those children who have had eczema, tend to have positive cutaneous reactions to the ingestants, and these positive food tests are of little or no clinical value. More studies are necessary in order to make this observation an unquestionable factor and a time-saving measure in the interpretation of allergy skin tests and the outlining of the treatment of bronchial asthma.

The earlier the asthma manifests itself, the more likely the child is to develop concomitant allergic conditions. Individuals from strongly allergic families are somewhat more prone to the development of concomitant allergic conditions. infancy and early childhood, the food allergens are very important, and in the latter part of the preschool period the foods and inhalants (animal emanations) are of equal importance. There is then an increasing sensitivity to the inhalants during the school years. The pollens become very important at puberty. Food sensitivity in early life is often followed in the same individual by sensitivity to inhalants which may prolong the asthma over a long period of time. House dust is becoming more and more important as an allergen. Recent studies tend to show that the potent substance in house dust is produced in the process of the aging of cotton. Secondary causes such as street dust, smoke, cold air play an important part in asthma of long duration. Iodides are effective in treatment although the so-called rhinitis occasionally found in association with asthma may be a reaction to the iodides if this form of treatment is being used. Calcium therapy has been very discouraging.

Although quite a number of the asthmatic children had large tonsils, only a small number were permitted to have them removed. In some instances, the asthma improved, in other cases, it became worse. It has therefore been suggested that the removal of tonsils and adenoids in allergic children should never be performed until the allergic investigations have been thoroughly carried out and the allergic symptoms well under control. If there is no urgent reason for the removal of the tonsils and adenoids, and they do not appear to be definitely infected, the operative procedure should be postponed pending the results of allergic treatment.

A review of the cases or urticaria and gastrointestinal allergy is presented in Tables V. and VI. The two allergic disorders have many things in common. The females predominate in both diseases. The family histories are more often negative than positive. The cutaneous tests indicate specific sensitivity in only a small number of patients. The intradermal tests may be tried. Trial or elimination diets are of greatest help although the results are not consistent. Acute infections are often the precipitating cause although food sensitivity appears to be the most common underlying cause.

SUMMARY AND CONCLUSIONS

1. A clinical review of the study made and the

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treatment carried out in 373 children with allergidisorders is presented.

- 2. The allergic diseases encountered are eczem allergic coryza, hay fever, bronchial asthma, urt caria and gastro-intestinal allergy. They belon to that section of a newer classification of allerg entitled natural or atopic hypersensitivenes characterized by a strong hereditary tendency.
- 3. Our experience in the care of the allergichildren indicates that a large number of ease can receive satisfactory relief. In obtaining the result, no elaborate methods of diagnosis an necessary, but instead a few rather simple procedures should be followed. All are considere of equal importance and are as follows:
 - (a) A very complete history.
 - (b) Cutaneous tests.
 - (c) Elimination or trial diets.
- 4. Treatment involves the thorough removal of the offending foods from the diet, or the irritating inhalants from the child's environment. Polle allergy responds very well to proper and careful desensitization.
- 5. A small number of patients require surgical treatment in order to obtain relief.
- 6. The success depends upon the avoidance of all haste in the diagnosis and treatment. Delay in relieving the child are often necessary because histories must be retaken, cutaneous tests repeate and trial diets rearranged. A rather exhaustive search should be conducted for the offending allergen or allergens, and an effort should be mad to avoid placing the patient on some form of drugtherapy, thereby dismissing the search.

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Special Articles and Association Notes

The Manitoba Medical Association Review

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Minutes of Executive Meeting

Summary of minutes of a meeting of the Executive Committee of the Manitoba Medical Association held in the Medical Arts Club on Tuesday, il January 17th, 1939, at 6.30 p.m.

Present.

Officers and Members of Executive Committee:

Dr. W. S. Peters
(Chairman)
Dr. W. G. Campbell
Dr. W. W. Musgrove
Dr. Geo. Brock
Dr. C. W. Burns
Dr. C. B. Stewart
Dr. C. B. Stewart
Dr. C. C. Trainor
Dr. E. W. Stewart
Dr. C. E. Corrigan
Dr. O. J. Day
Dr. W. F. O'Neill
Dr. C. W. MacCharles.

Chairman, Committee on Sociology:
Dr. E. S. Moorhead.

General Secretary, Canadian Medical Association:
Dr. T. C. Routley.

Following dinner the President called the meeting to order and welcomed Dr. Routley as a guest of the Executive Committee:

Minutes of Last Three Executive Meetings.

It was moved by Dr. O. C. Trainor, seconded by Dr. C. B. Stewart: THAT the minutes of the last three meetings be taken as read. —Carried.

Health Insurance: Report of Committee on Sociology.

A questionnaire with regard to Health Insurance had been received from Dr. Wallace Wilson, Chairman of the Committee on Economics of the Canadian Medical Association. A report was submitted by the Committee on Sociology (Economics) of the Manitoba Medical Association, and this report was considered in detail and amended in some respects.

The first part of the report dealt with the principles adopted by General Council of the Canadian Medical Association at the Annual Meeting at Ottawa in 1937, and printed in the September issue of the Canadian Medical Association *Journal* of that year. There were 15 clauses and all were accepted with the exception of 6, 10, 12 and 18 which were amended as follows:

- (6) That there be a Health Insurance Fund and that "Regional Medical Officers," to act as supervisors and referees be appointed, paid and controlled by the Central Board or Commission.
- (10) Deleted.
- (12) Amended as follows:

That the medical benefit be organized as follows:

- (a) Every qualified licensed medical practitioner to be eligible to practice under the Plan.
- (b) The insured person to have freedom of choice of doctor.
- (c) The medical service to be based upon making available to all a complete medical service, which would include health supervision and the treatment of disease. (A complete medical service consists of medical care, general and specialist, hospitalization, ancillary treatments, nursing, dental services and health.

(18) Amended as follows:

That the volume of work demanded from and the remuneration to members of the various professions be such as to assure an adequate standard of medical service.

The second part of the report consisted of a memorandum "Some Problems in the Consideration of Health Insurance." These problems were divided into "Accepted" and "Controversial." The first group consisted of points about which there was not likely to be a difference of opinion, and the second group consisted of items which would require considerable discussion before they could be settled.

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Contract Practice.

With regard to the general principles that should form the basis of all contracts, it was suggested that the Canadian Medical Association should set up standards for contract practice. It was agreed that the Manitoba Medical Association should attempt to secure information with regard to contract practice in the province.

Lodge Practice.

It was agreed an attempt should be made to secure information with regard to Lodge Practice in the province.

Voluntary Health Insurance.

The Committee had not as yet had time to deal with the problem of Voluntary Health Insurance.

It was moved by Dr. E. S. Moorhead, seconded by Dr. C. W. Burns: THAT the report of the Committee on Sociology, as amended, be adopted, and that a copy be forwarded to the Chairman of the Committee on Economics of the Canadian Medical Association.

—Carried.

Dr. Routley pointed out that this plan that was considered was tentative and it was the intention of the Canadian Medical Association to secure an opinion from each of the Provincial Associations.

Report of Committee on Constitution and By-Laws.

In the absence of Dr. F. D. McKenty, Chairman of the Committee, the Secretary read the report of a meeting of the Committee held on January 9th. Dr. R. I. Harris, Chairman of the Committee on Constitution and By-Laws of the Canadian Medical Association, had written a letter suggesting that a discussion could be carried on between the Committee on Constitution and By-Laws of the Manitoba Medical Association and the corresponding Committee of the Canadian Medical Association with a view to clearing up the differences of opinion with regard to federation. At the meeting of this Committee the following motion was passed: THAT Dr. McKenty be instructed to write to Dr. Harris and ask for his criticisms of the report submitted to the Annual Meeting of the Manitoba Medical Association.

The report of the Committee on Constitution and By-Laws was adopted.

Brandon-Cornwallis Health Unit.

Correspondence with regard to the Brandon-Cornwallis Health Unit was considered, and reports of the Legislative Committee and Committee on Sociology adopted.

Salaries to State Medical Officials.

A letter had been received from the Canadian Medical Association asking if the Manitoba Medical Association would be in favor of the Canadian Medical Association inquiring into salaries paid to state medical officials and employees of institutions. It was agreed that it would be advisable for this inquiry to be carried out

and the Manitoba Medical Association Executive agreed to co-operate.

Rural Relief Cases.

The Committee on Sociology reported that questionnaire is to be sent out to rural practitioners.

Letter from Secretary of Honorary Attending Staff of St. Boniface Hospital.

A letter and memorandum from the Secretaif of the Honorary Attending Staff of St. Bonifac Hospital dealing with the question of the responsibility towards patients as it affects the hospitate interne and the attending doctor, was referred to the Executive Committee of the Canadia Medical Association for an opinion.

Annual Meeting.

Dr. Routley explained that he would like a expression of opinion with regard to the dat that would be most suitable in September for the Manitoba Medical Association Annual Meeting It was agreed that the Association would accept whatever dates were suitable after Dr. Routley had consulted with the other three wester provincial associations.

Appointment of Representatives to Workmen's Compensation Referee Board.

A motion was passed instructing the officers make the necessary appointments.

Senior Members.

A Committee was appointed to suggest named for senior membership in the Canadian Medical Association.

Appointment of Representatives to Cancer Relief and Research Institute.

The officers were instructed to appoint the necessary representatives.

Representative from Winnipeg Medical Society to Manitoba Medical Association Executive.

A letter was read from the Winnipeg Medical Society advising that Dr. O. J. Day had been appointed their representative on the Executive Committee of the Manitoba Medical Association.

Treasurer's Report.

A motion was passed authorizing the treasure to be bonded, to invest certain funds in bonds an to pay an honorarium to the Editor of the Review

The remaining items of business on the agend were deferred to the next meeting of the executiv committee.

The meeting then adjourned.

Visit of Secretary of Canadian Medical Association

Dr. T. C. Routley, General Secretary of th Canadian Medical Association, visited Winnipe on January 17th and 18th. During his visit h a

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ttended the meeting of the Executive Committee n the evening of Tuesday, January 17th. In ddition he attended meetings of the following tommittees and groups: Legislative Committee, ioociology Committee, Radio Committee, Victorian order of Nurses, Programme Committee, Maternal fortality Committee, Education Committee, Committee on Ethics, Cancer Relief and Research nstitute and the Canadian Society for the Control and Cancer.

Maternal Welfare Committee

A Suggested Service on Obstetric Problems

th The Maternal Welfare Committee of the Manntoba Medical Association have decided to initiate en system of replies to physicians enquiring for homometric problems.

Any doctor desiring information about any general obstetric problem or about the care of a specific type of case, is invited to write, outlining the problem. After consideration the committee will reply giving whatever advice they consider may be helpful.

Problems which bring out points of general interest to the profession will be published in the ¹Review, but the name of the doctor sending in the ¹letter will be withheld.

The Committee hope that by initiating such a service they may be able not only to help the individual physician but also to stimulate interest in obstetric problems. They also expect to derive from such letters information which will enable the Committee to appreciate better the type of work they should be doing.

Communications may be sent to the Secretary, Manitoba Medical Association, 102 Medical Arts Building, and will be handed to the Maternal Welfare Committee for consideration and action.

CANADIAN MEDICAL ASSOCIATION

Application for membership may be sent to the Secretary, 184 College Street, Toronto 2, Ontario.

Annual fees, including subscription to the Canadian Medical Journal, \$10.00.

Membership year starts January 1st.

Annual Meeting

Scientific Programme

Members of the Manitoba Medical Association are invited to submit papers for the scientific programme of the annual meeting in September, 1939. Those wishing to deliver papers should forward copies or an abstract. Applications will be received up to May 1st. The selection will be made by the Scientific Programme Committee.

Suggestions from members as to particular subjects which they would wish to have discussed are also invited.

Communications may be sent to the Honorary Secretary, Manitoba Medical Association, 102 Medical Arts Building, Winnipeg. They will be sent on to the Committee for consideration and action.

Sectional Meeting American College of Surgeons

Fort Garry Hotel, Winnipeg March 29-30-31, 1939

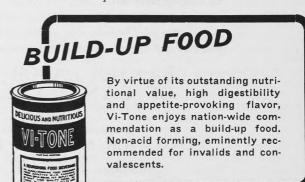
There will be a sectional meeting of the American College of Surgeons at the Fort Garry Hotel, Winnipeg, on March 29th, 30th and 31st, 1939.

This sectional meeting includes the members from Minnesota, South Dakota, North Dakota, Western Ontario, Manitoba, Saskatchewan and Alberta.

There will be clinics at the hospitals, panel discussion and hospital conferences.

Among the distinguished clinicians taking part will be Dr. George Crile, Cleveland, Chairman of the Board of Regents of the American College of Surgeons; Dr. Howard C. Naffziger, San Francisco, Professor of Surgery, University of California, and President of the American College of Surgeons; and Dr. Malcolm T. MacEachern, Associate Director of the American College of Surgeons.

A free public meeting will be held in Grace Church at 8.00 p.m. on March 31st.



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NEWS ITEMS

The following is an article entitled "Posture" written by Lucy Porter Sutton, M.D., Assistant Professor of Pediatrics, New York University Medical College, and ecently published in "Preventive Medicine":—

"Theoretically, any child who has a sturdy heritage, s well nourished and is brought up in a good environment, will have an efficient body. Some children who lave, of these three factors, only the sturdy physique, are good posture. Others have excellent care and invironment, but because they are built on thin and craggly lines achieve good body mechanics or posture only through conscious effort. However, other factors enter into the production of poor posture, some of them as uncontrollable as the inheritance of body build. Prolonged illness, or in small children short acute llnesses, fatigue, worry, shyness, all may be the precipitating cause of poor posture.

"Why some babies have firm muscles and others fed similarly are flabby and thin, or flabby and fat, is a nystery to pediatricians. Even more inexplicable are the husky babies who are fed and cared for contrary to the way we think is best. In other words, how a child is going to turn out is somewhat on the laps of the gods. Even so, a fundamentally inefficient body can be made efficient, and certainly every controllable factor should be considered in order to prevent bad posture.

"There are two good reasons for aspiring to good posture. One is the esthetic. A middle-aged man or woman with an unconcealable abdomen and round shoulders is not a lovely sight, particularly in profile. Many people whose faces are not beautiful give the appearance of good looks because of the beauty of their carriage. A thin child who stands straight does not look as pathetic as the one whose abdomen is in front of his flat chest, whose back caves in; nor does the erect overweight child look so fat. Beyond this is the fact that prolonged strain of unevenly used muscles may and often does lead to structural and physiological abnormality.

"The physiological abnormalities are those first noted in childhood, particularly fatigability, consti-pation and poor nutrition. It may be difficult to decide whether the poor posture causes or is caused by these. If both are present there is a vicious circle, so that both must be treated at the same time. If all mothers realized in how many ways insufficient rest affects their children, and if physicians would take the time to inquire in detail about the child's daily regime there would be fewer irritable and poor postured children. A common experience is encountered when at about the age of six children first go to school. Up to then it is relatively easy for the mother to see that the child gets enough sleep; if he goes to bed late, he sleeps late in the morning and is out of the way when she does her work. He is not used to regular hours of sleeping, but gets enough. Suddenly at the time when he is losing his baby chubbiness, and is lengthening out, he is precipitated into a regime of six hours of school, a hurried lunch hour, and no time to catch up on sleep if he stays up late—as most New York City public school children do. Only the special classes for handicapped children arrange for rest periods in the afternoon. It is conceivable that we would have fewer of the handicapped if all could have this extra daily rest.

"Several small details appear to help a child develop with good posture if attention is paid to them from the time they are born. For instance, the bed should always be firm and flat with no sagging and no pillow. Shoes should be flexible and designed only for protection until the child has lost the fat pads under the

longitudinal arch. After that, at least for a city child, the soles should be shaped so that the leather of the uppers comes under and close to the arches, thus giving a certain amount of support. High shoes are not necessary. The shape of the shoe should be such that the weight of the body will not fall on the inner border of the foot. Clothes should never be tight. Elastics around the middle just below the ribs make the stomach stick out. Garters for long stockings fastened to waists pull the shoulders down and forward, since children always want their clothes tight. In other words, care should be taken that none of the details of a child's environment constitute a handicap to good posture. Furniture obviously enters into the matter. Chairs and tables should be of such size and shape that the child will not be tempted to slump.

"The effect of food on the development of good posture except in the case of rickets is uncertain. Vitamin D can, of course, prevent this cause of prominent abdomen, weak feet and scoliosis. In some children it seems that a diet which includes large amounts of starchy foods produces enlarged abdomens. In others too much milk seems to do the same thing.

"Poor posture may be directly caused by defective vision or eye strain, or by diminished hearing. Children, at least by the time they enter school, and periodically thereafter, should have competent and thorough examination of both eyesight and hearing. Either of these handicaps may be present to a degree which constitutes a handicap to the child even when not detectable by ordinary examination.

"Too little attention has been paid to the psychological causes of poor posture. A child who is doing poor work in school, who has a secret sorrow, who thinks he is misunderstood or who has been frightened often shows it in his hang-dog position. If the trouble can be straightened out promptly, the posture may take care of itself. If it is of long standing, positive measures will have to be taken not only to get at the cause of the emotional difficulty, but to get the body back into good shape. The psychological care of the child should be so reasonable and understanding that he will not develop a state of mind which will be reflected in his posture.

"An important reason for paying attention to posture in early childhood is the fact that structural permanent bony changes may take place as a result of long standing functional poor posture. The most common are scoliosis and weak feet both of which may greatly handicap the individual in his physical activities. Watching many children over a period of years shows clearly that many in the pre-adolescent years develop Whether this functional scoliosis of varying grades. is to become permanent in a given child cannot be foretold. Many, as they get past the period of rapid body changes and difficult adjustments, will lose their physical evidences of turmoil. In others the deformity will increase and become permanent. The obvious answer is that all children should ideally be given adequate consistent and intelligent instruction in good body mechanics. School seems to be a good place to do this. The value of such training has been demonstrated in certain private schools and in the public schools of Boston.

"Studies of the body mechanics of young people in high schools and colleges have shown all too clearly the need for more and better attention to posture in the elementary schools, and before. The type of attention which we think helps a child develop normally in this respect is detailed and time consuming. Because most children need it, it is easy to become discouraged, or so used to seeing children with bad posture that its presence does not quite penetrate our consciousness.

Posture is definitely something of which all those who deal with children should be aware in our ideal of helping in the development of a healthy and physically efficient race."

COMMUNICABLE DISEASES REPORTED Urban and Rural — January, 1939

Occurring in the Municipalities of:

Mumps: Total 170—St. James 78, Winnipeg 70, Kildonan East 12, Unorganized 3, Kildonan West 2, Morris Town 2, Brandon 1, Strathclair 1, Tuxedo 1.

Scarlet Fever: Total 145—Winnipeg 70, Brandon 21, Rivers 10, Transcona 6, Rhineland 5, Miniota 4, Brooklands 3, Flin Flon 3, Kildonan West 3, Macdonald 2, St. Vital 2, Unorganized 2, Woodworth 2, Assiniboia 1, Boissevain 1, Eriksdale 1, Fort Garry 1, Kildonan North 1, Louise 1, Oakland 1, Pembina 1, Portage City 1, Roland 1, The Pas 1, Turtle Mountain 1.

Measles: Total 127—Argyle 28, Lorne 19, Kildonan West 14, Roblin Rural 14, Stanley 8, Blanshard 6, Louise 5, Unorganized 5, Winnipeg 5, Brandon 4, Pembina 3, Rhineland 3, St. Clements 3, Norfolk South 2, Springfield 2, Boissevain 1, Flin Flon 1, Portage City 1, Portage Rural 1, St. James 1, Turtle Mountain 1.

Chickenpox: Total 117—Winnipeg 20, Unorganized 18, Kildonan East 13, Arthur 12, St. Boniface 8, Melita 7, Dauphin Town 6, Flin Flon 6, Rockwood 6, Transcona 4, Selkirk 3, Thompson 3, Morris Town 2, Portage City 2, St. James 2, Brenda 1, Dauphin Rural 1, Edward 1, Franklin 1, Kildonan West 1.

Whooping Cough: Total 49—Winnipeg 28, Lawrence 7, Unorganized 6, Hanover 3, Arthur 1, Brandon 1, Flin Flon 1, Minitonas 1, Swan River Rural 1.

Tuberculosis: Total 32—Winnipeg 8, Unorganized Kildonan North 2, St. Boniface 2, St. Vital Boulton 1, Cartier 1, Cypress North 1, Dauph Rural 1, Ellice 1, Gimli Town 1, Grandview Rural Hanover 1, Kildonan East 1, Minnedosa 1, Roc wood 1, Rosser 1, Shell River 1, Siglunes 1.

Diphtheria: Total 25—St. Clements 12, Winnipeg Bifrost 2, Hanover 2, Kildonan West 2, Flin Flon Erysipelas: Total 8—Winnipeg 5, Portage City

Selkirk 1, Transcona 1.

German Measles: Total 4-Brandon 4.

Smallpox: Total 3—Shell River 2, St. Francois 1.

Trachoma: Total 3-Hanover 3.

Diphtheria Carrier: Total 3-Winnipeg 3.

Typhoid Fever: Total 2—Birtle Town 1, Tache 1. Lobar Pneumonia: Total 2—Brandon 1, Strathcona Influenza: Total 1—Winnipeg 1.

Veneral Disease: Total 116—Gonorrhoea 66, Syphi 50.

DEATHS FROM ALL CAUSES IN MANITOBA For the Month of December, 1938

URBAN—Cancer 37, Pneumonia 18, Tuberculosis Septic Throat 3, Influenza 2, Syphilis 2, Whoopi Cough 2, Chickenpox 1, Typhoid Fever 1, Erysipel 1, all others under 1 year 27, all other causes 19 Stillbirths 15. Total 304.

RURAL—Pneumonia 24, Cancer 23, Tuberculosis Influenza 9, Typhoid Fever 2, Erysipelas 2, Cerel Spinal Meningitis 1, Chickenpox 1, Diphtheria Puerperal Septicaemia 1, all others under 1 year 1 all other causes 165, Stillbirths 14. Total 280.

INDIANS—Tuberculosis 12, Influenza 4, Whoopi Cough 3, Pneumonia 1, all others under 1 year all other causes 3, Stillbirths 1. Total 25.

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May Be Added:

M.O.H. of District. President of District Society. Others as required.

Representatives of District

Medical Societies

Southern

W. F. O'NEILL, M.D. (Man.).

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Current Medical Literature

"The Practitioner"-April, 1938.

- "Emergencies in Cardiac Disease," by A. Hope Gos, M.D., F.R.C.P., Physician to Out-Patients, Mary's Hospital; Physician to the Cardi Department, Brompton Hospital.
- "Emergencies in Respiratory Disease," by F. Chandler, M.A., M.D., F.R.C.P., Physician, Bartholomew's Hospital; Senior Physician, t London Chest Hospital.
- "Diagnosis and Treatment of Haematemesis," by L. Livingstone, M.D., F.R.C.P., Physician, Kin College Hospital; Assistant Physician, t Brompton Hospital.
- "The Problem of the Acute Abdomen," by Philip Mitchiner, M.D., M.S., F.R.C.S., Honorary Surge to H.M. the King; Surgeon, St. Thomas's Hospit, O
- "Medical Emergencies in Kidney Disease," by Arthre Ellis, M.D., F.R.C.P., Director, Medical Urr London Hospital; Professor of Medicine, Uh versity of London.
- "Stroke," by Wilfred Harris, M.D., F.R.C.P., Consulting Physician, St. Mary's Hospital; Physician, Maida Vale Hospital for Nervous Diseases.
- "Coma," by C. M. Hinds Howell, M.A., D.M., F.R.C."
 Consulting Physician, St. Bartholomew's He pital; Physician, the National Hospital, Que Square, London.
- "Acute Insanity," by T. S. Good, M.A., M.R.C." L.R.C.P., Physician for Nervous Diseases, Ran cliffe Infirmary, Oxford.
- "Infantile Convulsions," by Richard W. B. Ellis, M.M. M.D., M.R.C.P., Assistant Physician for Childref Diseases, Guy's Hospital; Physician, The Infa_if Hospital, Vincent Square, London.
- "The Primary Treatment of Facial Injuries," by M Harold Gillies, C.B.E., F.R.C.S., Hon. F.A.C. Plastic Surgeon, St. Bartholomew's Hospital, t London County Council, the Royal Air Force, Andrew's Hospital, Dollis Hill, and the No Staffordshire Royal Infirmary, Newcastle-up, Tyne.
- "The Minor Surgical Emergencies of Industry," n William Blood, M.R.C.S., L.R.C.P., Medical Offici F. Lyons and Co., Ltd.
- "Midwifery Emergencies," by Donald McIntyre, M. F.R.C.S. (Ed.), F.C.O.G., Surgeon, Rom Samaritan Hospital for Women, Glasgow.
- "Gynaecological Emergencies," by Alexander Gallet M.C., M.B., F.R.C.S., Surgeon, the Chelsea Hospit for Women.
- "Surgical Emergencies in the Genito-Urinary System by W. D. Doherty, M.Chir., F.R.C.S., Surge, Genito-Urinary Department, Guy's Hospital.
- "Some Emergencies in Oto-Rhino-Laryngologic Disease," by F. G. Wrigley, M.D., Assistant Au Surgeon, Manchester Royal Infirmary.
- "Ophthalmic Emergencies," by G. W. Black, M. F.R.C.S., Ophthalmic Surgeon, Surgeon, Gene Infirmary, Leeds.
- "Diet in Health and Disease: X.—Diet in Nervous and Mental Disorders," by William Sargant, M. M.R.C.P., and Russell Fraser, M.B., M.R.C.S. (From the Psychiatric Unit, Maudsley Hospith London).

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'Acute Food Poisoning," by Julius Burnford, M.B., F.R.C.P., D.P.H., Senior Physician, the West London Hospital.

'Artificial Respiration," by G. P. Crowden, D.Sc., M.R.C.P., Reader in Industrial Physiology, University of London, London School of Hygiene and Tropical Medicine.

"Post-Graduate Medical Journal"-April, 1938.

The Male Climacteric," by Kenneth Walker, M.A., M.B., F.R.C.S., Lecturer in Venereal Disease and Officer in Charge Venereal Department, St. Bartholomew's Hospital; Surgeon in Charge Genito-Urinary Department, Royal Northern Hospital; Surgeon, St. Paul's Hospital for Genito-Urinary Diseases.

OBITUARY

DR. WILLIAM CHESTNUT

ge Dr. William Chestnut died February 7th of oronary thrombosis at his residence, in his 72nd thear. He was born in County Antrim, Ireland, In Traduated in Arts and had one year's study in Precious from McGee College, Londonderry. Comng to Canada 41 years ago, he completed his supeological course in Manitoba College. He took 'ip the study of medicine with the view of entering he foreign mission field and graduated in 1898, Heceiving the University Silver Medal, the Lt.netovernor's Silver Medal, and the Munro-Proctor fold Medal. Owing to an eye accident he did not Cinter the foreign mission field, but began practice Ran Winnipeg. He was Medical Superintendent of he Winnipeg General Hospital from 1900 to 1903, Lind then resumed private practice. For a number ref years he was on the Honorary Attending Staff a)f the Winnipeg General Hospital, and was also Assistant Professor of Medicine in the Faculty of Medicine.

DR. WILLIAM HENRY RENNIE

Dr. William Henry Rennie, Portage la Prairie, lied suddenly on February 6th, aged 66. Born , n Wellington County, Ont., he graduated in medi-ficine from the University of Toronto, and practiced n 1909 at Wardville, near London, Ont. In 1910 Mie went to Portage la Prairie and has continued con active practice up to the time of his death. He vas Officer of Health of the Rural Municipality let Portage la Prairie, a former President of the pilollege of Physicians and Surgeons of Manitoba, nd a member of the Executive of the Manitoba emledical Association. He is survived by his widow, ged daughter, and three sons, two of whom, Dr. fames Rennie and Dr. Jack Rennie, are taking gioost-graduate work in Edinburgh, Scotland.

FRANK WYETH HORNER

ne Frank Wyeth Horner, aged 63 years, died on rebruary 9th in Montreal. He was president of M. rank W. Horner Limited, manufacturing chem-Csts, Montreal. For some years he was a governor pitf the Montreal General Hospital.

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